Airport Navigation Aid Database Application 2.0
(AIRNAV 2.0)

NAVAID and Components
Use Cases and Business Rules

Revision History

#	Version	Date	Description	By
1	V00R01	09/10/2007	Draft Version of the Document	Frances K. Hubbard / Vishal Maheshwari
2	V00R02	11/20/2007	Draft Version of the Document after incorporating the comments from Workgroup	Frances K. Hubbard / Vishal Maheshwari
3	V01R00	12/20/2007	First Version of the Document	Frances K. Hubbard / Vishal Maheshwari

Table of Content

1 Introduction

This document fully describes the functionality of Maintain NAVAID and Maintain NAVAID Component modules within the AIRNAV 2.0 system. These requirements are captured in the AVN-iSM Use Case format. It details, from a user's perspective, the needs the system must address to capture information related to maintaining the NAVAID and components information in AIRNAV 2.0 system.

1.1 Abbreviations and Acronyms

Refer the document AIRNAV - Glossary for abbreviations, acronyms and other general terminology used in the AIRNAV documentation.

NOTE: The information on NAVAID and their constituent components is described in AIRNAV - Glossary.

2 Use Cases

The Maintain NAVAID and Component module will include following use cases:

1. Search NAVAID
2. Add NAVAID
    a. ARSR
    b. ASR
    c. DF
    d. DME
    e. FAN
    f. ILS
    g. LOC
    h. MLS
    i. MSBLS
    j. NDB
    k. PAR
    l. SDF
    m. SECRA
    n. TACAN
    o. TLS
    p. VDME
    q. VOR
    r. VORTAC
    s. VOT
3. Edit NAVAID
    a. ARSR
    b. ASR
    c. DF
    d. DME
    e. FAN
    f. ILS
    g. LOC
    h. MLS
    i. MSBLS
    j. NDB
    k. PAR
    l. SDF
    m. SECRA
    n. TACAN
    o. TLS
    p. VDME
    q. VOR
    r. VORTAC
    s. VOT
4. View NAVAID
5. Delete NAVAID
6. Activate NAVAID
7. Create NAVAID Version
8. Change Active NAVAID to History
9. Search NAVAID Component
10. Add NAVAID Component
    a. ARSR
    b. ASR

   c. AZ
   d. DF
   e. DME
   f. ELEV
   g. FAN
   h. GS
   i. LOC
   j. MB
   k. NDB
   l. PAR
   m. SDF
   n. SECRA
   o. TACAN
   p. VOR
   q. VOT

11. Edit NAVAID Component
   a. ARSR
   b. ASR
   c. AZ
   d. DF
   e. DME
   f. ELEV
   g. FAN
   h. GS
   i. LOC
   j. MB
   k. NDB
   l. PAR
   m. SDF
   n. SECRA
   o. TACAN
   p. VOR
   q. VOT

12. View NAVAID Component
13. Delete NAVAID Component
14. Activate NAVAID Component
15. Create NAVAID Component Version
16. Change Active NAVAID Component to History

The details of each of the above mentioned use cases are described in this document.

A new NAVAID system record cannot be created in AIRNAV until its required component records have been created in AIRNAV.

2.1 Use Case Specification: Search NAVAID

Brief Description
This use case describes the process of searching for NAVAID record(s) in AIRNAV system.

2.1.1 Actors
Following are the actors for this use case:
1. Data Specialist

2.1.2 Pre – conditions
1. User must be logged in the system as one of the actors mentioned in section 2.1.2 above.
2. User must have the access privileges to search NAVAID information.

2.1.3 Basic Flow of Events
1. User invokes the 'Search NAVAID' functionality in the system.
2. System prompts the user to provide the search criteria for searching NAVAID, including but not limited to:
   a. NAVAID Type – Listing.
   b. Identifier
   c. Broadcast Identifier
   d. Status – Listing.
   e. Airport – Listing.
   f. Runway – Listing.
   g. Location
   h. State – Listing.
   i. Country – Listing.
   j. Owner – Listing.
   k. Mobile Temporary System
3. User enters a value for any combination of search criterion at the same time and selects to retrieve the records.
4. System displays a complete listing of NAVAID records, which satisfy the user entered search criteria, sorted by their type, identifier within type and status (order Active, Pending, Working) within identifier within type in a tabular format. The information displayed for each NAVAID will be:
   a. Type
   b. Airport
   c. Runway
   d. Broadcast Identifier
   e. Identifier
   f. Location
   g. State
   h. Country
   i. Status
   j. Mobile Temporary System
5. If no user records satisfy the user entered search criteria, system displays an appropriate message to the user.

2.1.4 Alternate Flows
There are no alternate flows in this use case.

2.1.5 Sub – flows

There are no sub-flows for this use case.

2.1.6 Key Scenarios

There are no key scenarios for this use case.

2.1.7 Post – conditions

There are no post conditions for this use case.

2.1.8 Extension Points

There are no extension points for this use case.

2.1.9 Special Requirements

1. Refer to Business Rules section, Supplementary Specifications and individual NAVAID section in this document for requirements related to each NAVAID.

2.1.10　　　Additional Information

There is no additional information for this use case.

2.1.11　　　Business Rules

1. For each NAVAID record in the search result, system provides an ability, for users with appropriate access privileges, to directly navigate to:
    a.　edit display of that NAVAID record.
    b.　view display of that NAVAID record.
2. On the search result, the system provides an ability to directly navigate to the add NAVAID display for users with appropriate access privileges.

2.2 Use Case Specification: Add NAVAID

2.2.1 Brief Description

This use case describes the process of adding a NAVAID system record.

2.2.2 Actors

Following are the actors for this use case:

1. Data Specialist

2.2.3 Pre – conditions

1. User must be logged in the system as one of the actors mentioned in section 2.2.2 above.
2. User has conducted 'Search NAVAID' process and found no matching records.
3. User must have the access privileges to add NAVAID information.

2.2.4 Basic Flow of Events

1. User selects to navigate to the add display.
2. System prompts the user to select a NAVAID from a listing of different types of NAVAIDs.
3. User selects a particular NAVAID type.
4. System prompts the user to enter the necessary information for the selected NAVAID type.
5. User enters the necessary information and selects to save the NAVAID record in the system.
6. System adds the NAVAID record and displays an appropriate message to the user.
7. If the system fails to add the NAVAID record with the information as entered by the user, system displays an appropriate message to the user.

2.2.5 Alternate Flows

There are no alternate flows in this use case.

2.2.6 Sub – flows

There are no sub-flows for this use case.

2.2.7 Key Scenarios

There are no key scenarios for this use case.

2.2.8 Post – conditions

1. A new NAVAID record is added to the system and is searchable.

2.2.9 Extension Points

There are no extension points for this use case.

2.2.10   Special Requirements

1. Refer to Business Rules section, Supplementary Specifications and individual NAVAID section in this document for requirements related to each NAVAID.

2.2.11   Additional Information

There is no additional information for this use case.

2.2.12   Business Rules

1. System will provide an ability, for users with appropriate access privileges, to:
   a. navigate back to search display from the add display without adding a new record.
   b. clear the entire user entered information and any dependent information before record is added to the system.
   c. navigate to add component display from the add display after mandatory information for the NAVAID has been entered by the user in the system.
   d. navigate to edit component display from the add display.
   e. navigate to view component display from the add display.

2.3 Use Case Specification: Edit NAVAID

2.3.1 Brief Description

This use case describes the process of editing an existing NAVAID record.

2.3.2 Actors

Following are the actors for this use case:
1. Data Specialist

2.3.3 Pre – conditions

1. User must be logged in the system as one of the actors mentioned in section 2.3.2 above.
2. User has conducted 'Search NAVAID' process and selected a NAVAID record for editing.
3. User must have the access privileges to edit NAVAID information.

2.3.4 Basic Flow of Events

1. User selects to navigate to edit display for a particular NAVAID record.
2. System invokes a service on the IFPA Enterprise requesting associated record(s) to the selected NAVAID.
3. IFPA Enterprise finds no associated record(s) in a non-editable mode to the selected NAVAID record.
4. System displays the selected NAVAID record in the edit mode.
5. User makes the necessary changes to the record information and selects to save the changed NAVAID record in the system.
6. System saves the NAVAID record with the changed information and displays an appropriate message to the user.
7. If the system fails to save the NAVAID record with the changed information as entered by the user, system displays an appropriate message to the user.

2.3.5 Alternate Flows

2.3.5.1 Associated Record(s) from IFPA Enterprise

1. User selects to navigate to edit display for a particular NAVAID record.
2. System invokes a service on the IFPA Enterprise requesting associated record(s) to the selected NAVAID.
3. IFPA Enterprise returns a list of associated record(s) and their respective owner(s) to the selected NAVAID record.
4. System does not allow the edit of the NAVAID record and display the list of associated record(s) and their respective owner(s) to the user.

2.3.6 Sub – flows

There are no sub-flows for this use case.

2.3.7 Key Scenarios

There are no key scenarios for this use case.

2.3.8 Post – conditions

1. A changed NAVAID record is saved to the system and is searchable based on the changed information.

2.3.9 Extension Points

There are no extension points for this use case.

2.3.10 Special Requirements

1. Refer to Business Rules section, Supplementary Specifications and individual NAVAID section in this document for requirements related to each NAVAID.

2.3.11 Additional Information

There is no additional information for this use case.

2.3.12 Business Rules

1. System will provide an ability, for users with appropriate access privileges, to:
   a. navigate back to search display from the edit display without making any changes to the selected record.
   b. cancel the changes made by user to the record before the changed record is saved to the system.
   c. navigate add component display from the edit display.
   d. navigate edit component display from the edit display.

2.4 Use Case Specification: View NAVAID

2.4.1 Brief Description
This use case describes the process of viewing an existing NAVAID record.

2.4.2 Actors
Following are the actors for this use case:
1. Data Specialist

2.4.3 Pre – conditions
1. User must be logged in the system as one of the actors mentioned in section 2.4.2 above.
2. User has conducted 'Search NAVAID' process and selected a NAVAID record for viewing.
3. User must have the access privileges to view NAVAID information.

2.4.4 Basic Flow of Events
1. User selects to navigate to view display for a particular NAVAID system record.
2. System displays the selected NAVAID system record in the view mode.

2.4.5 Alternate Flows
There are no alternate flows in this use case.

2.4.6 Sub – flows
There are no sub-flows for this use case.

2.4.7 Key Scenarios
There are no key scenarios for this use case.

2.4.8 Post – conditions
There are no post-conditions for this use case.

2.4.9 Extension Points
There are no extension points for this use case.

2.4.10 Special Requirements
1. Refer to Business Rules section, Supplementary Specifications and individual NAVAID section in this document for requirements related to each NAVAID.

2.4.11 Additional Information
There is no additional information for this use case.

2.4.12 Business Rules
1. System will provide an ability, for users with appropriate access privileges, to:
   a. navigate back to search display from the view display.
   b. navigate to view component record display from the view NAVAID display.
   c. create new version of NAVAID record from the view NAVAID display.

2.5 Use Case Specification: Delete NAVAID

2.5.1 Brief Description

This use case describes the process of deleting an existing working or pending NAVAID system record. The delete here refers to the physical deletion of the NAVAID system record.

2.5.2 Actors

Following are the actors for this use case:
1. Data Specialist

2.5.3 Pre – conditions

1. User must be logged in the system as one of the actors mentioned in section 2.5.2 above.
2. User has conducted 'Search NAVAID' process and selected a working or pending NAVAID record for deleting.
3. User must have the access privileges to delete NAVAID information.

2.5.4 Basic Flow of Events

1. User selects to delete a particular working or pending NAVAID system record from AIRNAV.
2. System invokes a service on the IFPA Enterprise requesting associated record(s) to the selected NAVAID.
3. IFPA Enterprise finds no associated record(s) to the selected NAVAID record.
4. System deletes the selected NAVAID system record and all the child records from the system and displays an appropriate message to the user.
5. If the system fails to delete the selected NAVAID system record, system displays an appropriate message to the user.

2.5.5 Alternate Flows

2.5.5.1 Associated Record(s) from IFPA Enterprise

1. User selects the NAVAID system record to be deleted
2. User selects to delete the selected NAVAID system record from AIRNAV.
3. System invokes a service on the IFPA Enterprise requesting associated record(s) to the selected NAVAID record.
4. IFPA Enterprise returns a list of associated record(s) and their respective owner(s) to the selected NAVAID record.
5. System does not allow the delete of the NAVAID record and displays the list of associated record(s) and their respective owner(s) to the user.

2.5.6 Sub – flows

There are no sub-flows for this use case.

2.5.7 Key Scenarios

There are no key scenarios for this use case.

2.5.8 Post – conditions

1. The selected NAVAID system record will be deleted from the system.
2. The deleted NAVAID system record will not be searchable in the system.

2.5.9 Extension Points

There are no extension points for this use case.

2.5.10   Special Requirements

1. Refer to Supplementary Specifications and individual NAVAID section in this document for requirements related to each NAVAID.

2.5.11   Additional Information

There is no additional information for this use case.

2.6 Use Case Specification: Activate NAVAID

2.6.1 Brief Description

This use case describes the process of changing the status of a 'Pending' NAVAID record to 'Active'.

2.6.2 Actors

Following are the actors for this use case:
1. AIRNAV - Internal

2.6.3 Pre-conditions

1. NAVAID record(s) in 'Publication' model with status 'Pending'.

2.6.4 Basic Flow of Events

1. System retrieves the version of NAVAID records in 'Publication' model with status 'Pending' and publication date as the system date.
2. System sets the status of currently 'Active' version of the NAVAID records, retrieved in step # 1 above, to 'History'.
3. System sets the status of the retrieved version of NAVAID records, as per step # 1 above, to 'Active'.

2.6.5 Alternate Flows

There are no alternate flows for this use case.

2.6.6 Sub-flows

There are no sub-flows for this use case.

2.6.7 Key Scenarios

There are no key scenarios for this use case.

2.6.8 Post-conditions

1. All the currently 'Active' version of the NAVAID records within the 'Publication' model, whose 'Pending' version will become active, are converted to 'History' version of the NAVAID records.
2. All the 'Pending' version of the NAVAID records within the 'Publication' model with publication date as system date are converted to 'Active' version of the NAVAID records.

2.6.9 Extension Points

There are no extension points for this use case.

2.6.10 Special Requirements

1. Refer to Supplementary Specifications and individual NAVAID section in this document for requirements related to each NAVAID.

2.6.11 Additional Information

There is no additional information for this use case.

2.7 Use Case Specification: Create NAVAID Version

2.7.1 Brief Description
This use case describes the process of creating a new version of an existing NAVAID record.

2.7.2 Actors
Following are the actors for this use case:
1. Data Specialist

2.7.3 Pre-conditions
1. User must be logged in the system as one of the actors mentioned in section 2.7.2 above.
2. User has conducted the 'View NAVAID' process for the selected NAVAID record.
3. User must have the access privileges to create a new version of existing NAVAID information.

2.7.4 Basic Flow of Events
1. User selects to create a new version of the NAVAID record.
2. System prompts user to select the Component(s) to be versioned with the NAVAID record.
3. System creates a new NAVAID record with status as 'Working' and displays the new NAVAID record in an edit mode.
4. User makes the necessary changes to the information of the newly created version of the NAVAID record and selects to save the NAVAID record in the system.
5. System saves the new version of the NAVAID record with the changed information and displays an appropriate message to the user.
6. If the system fails to save the new version of the NAVAID record with the changed information as entered by the user, system displays an appropriate message to the user.

2.7.5 Alternate Flows
There are no alternate flows for this use case.

2.7.6 Sub-flows
There no sub-flows for this use case.

2.7.7 Key Scenarios
There are no key scenarios for this use case.

2.7.8 Post-conditions
1. A new version of the record with status 'Working' is saved in the system.

2.7.9 Extension Points
There are no extension points for this use case.

2.7.10   Special Requirements
1. Refer to Supplementary Specifications and individual NAVAID section in this document for requirements related to each NAVAID.

2.7.11   Additional Information

There is no additional information for this use case.

2.8 Use Case Specification: Change Active NAVAID to History

2.8.1 Brief Description

This use case describes the process of pushing an existing active NAVAID record to history status by system automatically.

2.8.2 Actors

Following are the actors for this use case:
1. AIRNAV - Internal

2.8.3 Pre-conditions

1. NAVAID record(s) in 'Publication' model with status 'Pending'.
   OR
   Active NAVAID record(s) with effective end date.

2.8.4 Basic Flow of Events

1. System retrieves the version of NAVAID record(s) in 'Publication' model with status 'Pending' and publication date as the system date.
2. System retrieves the version of NAVAID record(s) in 'Publication' model with status 'Active' and effective end date as the system date.
3. System sets the status of currently 'Active' version of the NAVAID record(s), retrieved in step # 1 and # 2 above, to 'History'.

2.8.5 Alternate Flows

There are no alternate flows for this use case.

2.8.6 Sub-flows

There are no sub-flows for this use case.

2.8.7 Key Scenarios

There are no key scenarios for this use case.

2.8.8 Post-conditions

1. All the currently 'Active' version of the NAVAID record(s) within the 'Publication' model, whose 'Pending' version will become active as their publication date is same as the system date, are converted to 'History' version of the NAVAID record(s).
2. All the 'Active' version of the NAVAID record(s) whose effective end date is same as system date are converted to 'History' version of the NAVAID record(s).

2.8.9 Extension Points

There are no extension points for this use case.

2.8.10   Special Requirements

1.   Refer to Supplementary Specifications and individual NAVAID section in this document for requirements related to each NAVAID.

2.8.11   Additional Information

There is no additional information for this use case.

2.9 Use Case Specification: Search NAVAID Component

2.9.1 Brief Description

This use case describes the process for searching NAVAID component record(s) in AIRNAV by a user.

2.9.2 Actors

Following are the actors for this use case:
1. Data Specialist

2.9.3 Pre-conditions

1. The user must be logged in the system as one of the actors mentioned in section 2.9.2 above.
2. User must have the access privileges to search NAVAID component information.

2.9.4 Basic Flow of Events

1. User invokes the 'Search NAVAID Component' process within the 'NAVAID and Component' functionality in the system.
2. System prompts the user to provide the search criteria for searching NAVAID Component, including but not limited to:
   a. Component Type
   b. NAVAID Identifier
   c. Status
   d. Airport
   e. Runway
   f. State
   g. Country
3. User enters a value for any combination of search criterion at the same time and selects to retrieve the records.
4. System displays a complete listing of NAVAID component records, which satisfy the user entered search criteria, sorted by their type, identifier within type and status (order Active, Pending, Working) within identifier within type in a tabular format. The information displayed for each NAVAID component will be:
   a. Component Type
   b. NAVAID Identifier
   c. NAVAID Type
   d. Status
   e. Airport
   f. Runway
   g. State
   h. Country
5. If no user records satisfy the user entered search criteria, system displays an appropriate message to the user.

2.9.5 Alternate Flows

There are no alternate flows for this use case.

2.9.6 Sub-flows

There are no sub-flows for this use case.

2.9.7 Key Scenarios

There are no key scenarios for this use case.

2.9.8 Post-conditions

There are no post conditions for this use case.

2.9.9 Extension Points

There are no extension points for this use case.

2.9.10   Special Requirements

1. Refer to Business Rules section, Supplementary Specifications and individual NAVAID component section in this document for requirements related to each NAVAID component.

2.9.11   Additional Information

There is no additional information for this use case.

2.9.12   Business Rules

1. For each NAVAID component record in the search result, system will provide an ability, for users with appropriate access privileges, to directly navigate to
    a.   edit display of that NAVAID component record
    b.   view display of that NAVAID component record

2.10 Use Case Specification: Add NAVAID Component

2.10.1 Brief Description

This use case describes the process of adding a new NAVAID component record by a user.

2.10.2 Actors

Following are the actors for this use case:
1. Data Specialist

2.10.3 Pre-conditions

1. User must be logged in the system as one of the actors mentioned in section 2.10.2 above.
2. User is performing the 'Add NAVAID' or 'Edit NAVAID' process and selects to add a new NAVAID component.
3. User must have the access privileges to add NAVAID component information.

2.10.4 Basic Flow of Events

1. User selects to navigate to the add component display.
2. System prompts the user to select a NAVAID component from a listing of different types of NAVAID Components.
3. User selects a particular NAVAID component type.
4. System prompts the user to enter the necessary information for the selected NAVAID component type.
5. User enters the necessary information and selects to save the NAVAID component record in the system.
6. System adds the NAVAID component record and displays an appropriate message to the user.
7. If the system fails to add the NAVAID component record with the information as entered by the user, system displays an appropriate message to the user.

2.10.5 Alternate Flows

There are no alternate flows in this use case.

2.10.6 Sub-flows

There are no sub-flows for this use case.

2.10.7 Key Scenarios

There are no key scenarios for this use case.

2.10.8 Post-conditions

1. A new NAVAID component record is added to the system and is searchable.

2.10.9 Extension Points

There are no extension points for this use case.

2.10.10   Special Requirements

1. Refer to Business Rules section, Supplementary Specifications and individual NAVAID component section in this document for requirements related to each NAVAID component.

2.10.11   Additional Information

There is no additional information for this use case.

2.10.12   Business Rules

1. System will provide an ability, for users with appropriate access privileges, to clear the entire user entered information and any dependent information before record is added to the system.
2. If the user navigated to add NAVAID component from add NAVAID, system will provide an ability to navigate to add NAVAID display from the add NAVAID component display.
3. If the user navigated to add NAVAID component from edit NAVAID, system will provide an ability to navigate to edit NAVAID display from the add NAVAID component display.

2.11 Use Case Specification: Edit NAVAID Component

2.11.1   Brief Description

This use case describes the process of editing a NAVAID component record of the existing NAVAID system record.

2.11.2   Actors

Following are the actors for this use case:
1. Data Specialist

2.11.3   Pre – conditions

1. User must be logged in the system as one of the actors mentioned in section 2.11.2 above.
2. User has conducted 'Search NAVAID Component' process and has selected a component record for editing.
   OR
   User is performing 'Add NAVAID' or 'Edit NAVAID' process and selects to edit the components associated with the NAVAID.
3. User must have the access privileges to edit NAVAID component information.

2.11.4   Basic Flow of Events

1. User selects to navigate to edit NAVAID component display.
2. System invokes a service to the IFPA Enterprise requesting associated record(s) to the selected NAVAID component.
3. IFPA Enterprise finds no associated record(s) to the selected NAVAID component record.
4. System displays the selected NAVAID component record in the edit mode.
5. User makes the necessary changes to the record information and selects to save the changed NAVAID component record in the system.
6. System saves the NAVAID component record with the changed information and displays an appropriate message to the user.
7. If the system fails to save the NAVAID component record with the changed information as entered by the user, system displays an appropriate message to the user.

2.11.5   Alternate Flows

2.11.5.1   Associated Record(s) from IFPA Enterprise

1. User selects to navigate to edit display for a particular NAVAID component record.
2. System invokes a service to the IFPA Enterprise requesting associated record(s) to the selected NAVAID component.
3. IFPA Enterprise returns a list of associated record(s) and their respective owner(s) to the selected NAVAID component record.
4. System does not allow the edit of the NAVAID component record and displays the list of associated record(s) and their respective owner(s) to the user.

2.11.6   Sub – flows

There are no sub-flows for this use case.

2.11.7   Key Scenarios

There are no key scenarios for this use case.

2.11.8   Post – conditions

1. A changed NAVAID component record is saved to the system and is searchable based on the changed information.

2.11.9   Extension Points

There are no extension points for this use case.

2.11.10   Special Requirements

1. Refer to Business Rules section, Supplementary Specifications and individual NAVAID component section in this document for requirements related to each NAVAID component.

2.11.11   Additional Information

There is no additional information for this use case.

2.11.12   Business Rules

1. System will provide an ability, for users with appropriate access privileges, to:
    a. navigate back to search display from the edit display without making any changes to the selected record.
    b. cancel the changes made by user to the record before the changed record is saved to the system.
2. If the user navigated to edit NAVAID component from add NAVAID, system will provide an ability to navigate to add NAVAID display from the edit NAVAID component display.
3. If the user navigated to edit NAVAID component from edit NAVAID, system will provide an ability to navigate to edit NAVAID display from the edit NAVAID component display.

2.12 Use Case Specification: View NAVAID Component

2.12.1   Brief Description

This use case describes the process of viewing an existing NAVAID component record by a user.

2.12.2   Actors

Following are the actors for this use case:
1. Data Specialist

2.12.3   Pre-conditions

1. User must be logged in the system as one of the actors mentioned in section 2.12.2 above.
2. User has conducted 'Search NAVAID Component' process and has selected a component record for viewing.
   OR
   User is performing 'Add NAVAID' or 'Edit NAVAID' or 'View NAVAID' process and selects to view the components associated with the NAVAID.
3. User must have the access privileges to view NAVAID component information.

2.12.4   Basic Flow of Events

1. User selects to navigate to view display for a particular NAVAID component record.
2. System displays the selected NAVAID component record in the view mode.

2.12.5   Alternate Flows

There are no alternate flows in this use case.

2.12.6   Sub – flows

There are no sub-flows for this use case.

2.12.7   Key Scenarios

There are no key scenarios for this use case.

2.12.8   Post – conditions

There are no post-conditions for this use case.

2.12.9   Extension Points

There are no extension points for this use case.

2.12.10   Special Requirements

1. Refer to Business Rules section, Supplementary Specifications and individual NAVAID component section in this document for requirements related to each NAVAID component.

2.12.11   Additional Information

There is no additional information for this use case.

2.12.12   Business Rules

1. System will provide an ability, for users with appropriate access privileges, to:
   a.   navigate back to search display from the view display.
   b.   create NAVAID component version from the view NAVAID component display.
2. If the user navigated to view NAVAID component from add NAVAID, system will provide an ability to navigate to add NAVAID display from the view NAVAID component display.
3. If the user navigated to view NAVAID component from edit NAVAID, system will provide an ability to navigate to edit NAVAID display from the view NAVAID component display.
4. If the user navigated to view NAVAID component from view NAVAID, system will provide an ability to navigate to view NAVAID display from the view NAVAID component display.

2.13 Use Case Specification: Delete NAVAID Component

2.13.1   Brief Description

This use case describes the process of deleting an existing working or pending NAVAID component record by a user. The delete here refers to the physical deletion of the NAVAID component record.

2.13.2   Actors

Following are the actors for this use case:
1. Data Specialist

2.13.3   Pre-conditions

1. User must be logged in the system as one of the actors mentioned in section 2.13.2 above.
2. User has conducted 'Search NAVAID Component' or 'Add NAVAID' or 'Edit NAVAID' process and selected a working or pending NAVAID component record for deleting.
3. User must have the access privileges to delete NAVAID component information.

2.13.4   Basic Flow of Events

1. User selects to delete a particular working or pending NAVAID component record from AIRNAV.
2. System invokes a service to the IFPA Enterprise requesting associated record(s) to the selected NAVAID component.
3. IFPA Enterprise finds no associated record(s) to the selected NAVAID component record.
4. System deletes the selected NAVAID component record from the system and displays an appropriate message to the user.
5. If the system fails to delete the selected NAVAID component record, system displays an appropriate message to the user.

2.13.5   Alternate Flows

2.13.5.1   Associated Record(s) from IFPA Enterprise

1. User selects the NAVAID component record to be deleted
2. User selects to delete the selected NAVAID component record from AIRNAV.
3. System invokes a service to the IFPA Enterprise requesting associated record(s) to the selected NAVAID component record.
4. IFPA Enterprise returns a list of associated record(s) and their respective owner(s) to the selected NAVAID component record.
5. System does not allow the delete of the NAVAID component record and displays the list of associated record(s) and their respective owner(s) to the user.

2.13.5.2   Required NAVAID Component

1. User selects the NAVAID component record to be deleted
2. User selects to delete the selected NAVAID component record from AIRNAV.
3. System checks whether the selected NAVAID component record is a required component of a NAVAID.
4. The selected NAVAID component record is a required component of an existing NAVAID record.
5. System does not allow the delete of the NAVAID component record and displays an appropriate message to the user.

2.13.6   Sub – flows

There no sub-flows for this use case.

2.13.7   Key Scenarios

There are no key scenarios for this use case.

2.13.8   Post-conditions

1. The selected NAVAID component record will be deleted from the system.
2. The deleted NAVAID component record will not be searchable in the system.

2.13.9   Extension Points

There are no extension points for this use case.

2.13.10   Special Requirements

1. Refer to Supplementary Specifications and individual NAVAID component section in this document for requirements related to each NAVAID component.

2.13.11   Additional Information

There is no additional information for this use case.

2.14 Use Case Specification: Create NAVAID Component Version

2.14.1   Brief Description

This use case describes the process of creating a new version of an existing NAVAID component record by a user.

2.14.2   Actors

There is only one actor for this use case:
1. Data Specialist

2.14.3   Pre-conditions

1. User must be logged in the system as one of the actors mentioned in section 4.14.2 above.
2. User has conducted the 'View NAVAID Component' process for the selected NAVAID component record.
3. User must have the access privileges to create NAVAID component version information.

2.14.4   Basic Flow of Events

1. User selects to create a new version of the NAVAID component record.
2. System creates a new NAVAID component record with status as 'Working' and displays the new NAVAID component record in an edit mode.
3. User makes the necessary changes to the information of the newly created version of the NAVAID component record and selects to save the NAVAID component record in the system.
4. System saves the new version of the NAVAID component record with the changed information and displays an appropriate message to the user.
5. If the system fails to save the new version of the NAVAID component record with the changed information as entered by the user, system displays an appropriate message to the user.

2.14.5   Alternate Flows

There are no alternate flows for this use case.

2.14.6   Sub-flows

There no sub-flows for this use case.

2.14.7   Key Scenarios

There are no key scenarios for this use case.

2.14.8   Post-conditions

1. A new version of the record with status 'Working' is saved in the system.

2.14.9   Extension Points

There are no extension points for this use case.

2.14.10   Special Requirements

1. Refer to Supplementary Specifications and individual NAVAID component section in this document for requirements related to each NAVAID component.

2.14.11   Additional Information

1. The system should not allow the creation of a new Component version on an Active NAVAID system.

2.15 Use Case Specification: Change Active NAVAID Component to History

2.15.1   Brief Description

This use case describes the process of pushing an existing active NAVAID component record to history status by system automatically.

2.15.2   Actors

Following are the actors for this use case:
1. AIRNAV - Internal

2.15.3   Pre-conditions

1. NAVAID component record(s) in 'Publication' model with status 'Pending'.
   OR
   Active NAVAID component record(s) with effective end date.

2.15.4   Basic Flow of Events

1. System retrieves the version of NAVAID component record(s) in 'Publication' model with status 'Pending' and publication date as the system date.
2. System retrieves the version of NAVAID component record(s) in 'Publication' model with status 'Active' and effective end date (cancelled) as the system date.
3. System sets the status of currently 'Active' version of the NAVAID component record(s), retrieved in step # 1 and # 2 above, to 'History'.

2.15.5   Alternate Flows

There are no alternate flows for this use case.

2.15.6   Sub-flows

There are no sub-flows for this use case.

2.15.7   Key Scenarios

There are no key scenarios for this use case.

2.15.8   Post-conditions

1. All the currently 'Active' version of the NAVAID component record(s) within the 'Publication' model, whose 'Pending' version will become active as their publication date is same as the system date, are converted to 'History' version of the NAVAID component record(s).
2. All the 'Active' version of the NAVAID component record(s) whose effective end date is same as system date are converted to 'History' version of the NAVAID component record(s).

2.15.9   Extension Points

There are no extension points for this use case.

2.15.10   Special Requirements

1. Refer to Supplementary Specifications and individual NAVAID component section in this document for requirements related to each NAVAID component.

2.15.11   Additional Information

There is no additional information for this use case.

3   NAVAID Specific Business Rules

3.1   ARSR

1. Following information, including but not limited to, will be captured for ARSR in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Status – Listing.
      iv. Revision Number – Mandatory information.
      v. Commission Date
      vi. Effective Date – Mandatory information. Listing.
      vii. Reconfiguration Date
      viii. Effective End Date
      ix. Decommission Date
      x. Location – Mandatory information.
      xi. State – Listing.
      xii. Country – Mandatory information. Listing.
      xiii. Owner – Listing.
      xiv. Data Source – Listing.
      xv. Broadcast Identifier
   b. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC
         1. ARTCC – Listing - Multiple
   c. Contact Information - Multiple
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   d. Comments – Multiple
      i. Priority
      ii. Topic – Listing.
      iii. Date
      iv. Remark
2. The following information will not be following the concept of temporality:
   a. Office Information
   b. Contact Information

3.2 ASR

1. Following information, including but not limited to, will be captured for ASR in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Model – Mandatory information. Listing.
      iv. Status – Listing.
      v. Revision Number – Mandatory information.
      vi. Commission Date
      vii. Effective Date – Mandatory information. Listing.
      viii. Reconfiguration Date
      ix. Effective End Date
      x. Decommission Date
      xi. Location – Mandatory information.
      xii. State – Listing.
      xiii. Country – Mandatory information. Listing.
      xiv. Owner – Listing.
      xv. Data Source – Listing.
      xvi. General Terrain Monitor Indicator
      xvii. ARTS – Listing
      xviii. Broadcast Identifier
   b. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC
         1. ARTCC – Listing - Multiple
   c. Contact Information - Multiple
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   d. Comments - Multiple
      i. Priority
      ii. Topic – Listing.
      iii. Date
      iv. Remark
2. The following information will not be following the concept of temporality:
   a. Office Information

   b.   Contact Information

3.3 DF

1. Following information, including but not limited to, will be captured for DF in AIRNAV:
    a. General Information
        i. NAVAID Type – Mandatory information. Non-editable.
        ii. NAVAID Identifier – Mandatory information.
        iii. MagVar/Year
        iv. Status – Listing.
        v. Class - Listing
        vi. Revision Number – Mandatory information.
        vii. Commission Date
        viii. Effective Date – Mandatory information. Listing.
        ix. Reconfiguration Date
        x. Effective End Date
        xi. Decommission Date
        xii. Location – Mandatory information.
        xiii. State – Listing
        xiv. Country – Mandatory information. Listing
        xv. Owner – Listing.
        xvi. Data Source – Listing.
        xvii. Broadcast Identifier
    b. Monitor
        i. Monitoring Full or Part-time Flag – Listing
        ii. Monitoring Location
        iii. Hours of Operations
        iv. Monitor Category – Listing.
    c. Office Information
        i. Flight Inspection – Listing.
        ii. Procedure – Listing.
        iii. Region – Listing.
        iv. Service Area – Non-editable.
        v. OCC Code – Non-editable.
        vi. Program Code – Listing.
        vii. ARTCC
            1. ARTCC – Listing - Multiple
    d. Contact Information - Multiple
        i. Contact Role
        ii. Prefix Name
        iii. Last Name
        iv. First Name
        v. Middle Initial
        vi. Suffix Name
        vii. Organizational Name
        viii. Address Line 1
        ix. Address Line 2
        x. City
        xi. State - Listing.
        xii. Zip
        xiii. Phone
        xiv. Email
        xv. Remarks
    e. Comments - Multiple
        i. Priority
        ii. Topic – Listing.
        iii. Date

          iv.   Remark

2. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
3. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
4. The following information will not be following the concept of temporality:
   a. Offices
   b. Contact Information

3.4 DME

1. Following information, including but not limited to, will be captured for DME in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Model – Mandatory information. Listing.
      iv. Status – Listing.
      v. Revision Number – Mandatory information.
      vi. Commission Date
      vii. Effective Date – Mandatory information. Listing.
      viii. Reconfiguration Date
      ix. Effective End Date
      x. Decommission Date
      xi. Location – Mandatory information.
      xii. State – Listing.
      xiii. Country – Mandatory information. Listing.
      xiv. Class – Listing.
      xv. Data Source – Listing
      xvi. Owner – Listing.
      xvii. Temporary Mobile System Indicator
      xviii. Broadcast Identifier
   b. Monitor
      i. Monitoring Full or Part-time Flag – Listing
      ii. Monitoring Location
      iii. Hours of Operations
      iv. Monitor Category – Listing.
   c. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC
         1. ARTCC – Listing - Multiple
   d. Contact Information
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   e. Comments
      i. Priority
      ii. Topic – Listing.

     iii. Date
     iv. Remark
2. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
3. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
4. The following information will not be following the concept of temporality:
   a. Office Information
   b. Contact Information

3.5 FAN

1. Following information, including but not limited to, will be captured for FAN in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Broadcast Identifier – Mandatory information.
      iv. Model - Mandatory information. Listing.
      v. Status – Listing.
      vi. Revision Number – Mandatory information.
      vii. Commission Date
      viii. Effective Date – Mandatory information. Listing.
      ix. Reconfiguration Date
      x. Effective End Date
      xi. Decommission Date
      xii. Location – Mandatory information.
      xiii. State – Listing.
      xiv. Country – Mandatory information. Listing.
      xv. Owner – Listing.
      xvi. Data Source – Listing.
   b. Contact Information
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   c. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC
         1. ARTCC – Listing - Multiple
   d. Comments
      i. Priority
      ii. Topic – Listing.
      iii. Date
      iv. Remark
2. Following information will not be following the concept of temporality:
   a. Office Information
   b. Contact Information

3.6 ILS

1. Following information, including but not limited to, will be captured for ILS in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Status – Listing.
      iv. Revision Number – Mandatory information.
      v. Commission Date
      vi. Effective Date – Mandatory information. Listing.
      vii. Reconfiguration Date
      viii. Effective End Date
      ix. Decommission Date
      x. Category – Mandatory information. Listing.
      xi. Owner – Listing.
      xii. Data Source – Listing.
      xiii. Location – Mandatory information.
      xiv. State – Listing.
      xv. Country – Mandatory information. Listing.
      xvi. Broadcast Identifier
      xvii. Runway - Link.
         1. Display following:
            a. Airport Identifier
            b. Runway Number
            c. Airport Location
            d. State
            e. Country
   b. Monitor
      i. Monitoring Full or Part-time Flag – Listing.
      ii. Monitor Location
      iii. Hours of Operations
   c. Contact Information
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   d. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC

1. ARTCC – Listing - Multiple
   e. Comments
      i. Priority
      ii. Topic – Listing.
      iii. Date
      iv. Remark
   f. Distances / Measure
      i. FAF
         1. Distance to Threshold – Pull from SIAP
         2. Tapeline - Calculate
         3. Earth Curve - Calculate
         4. MSL Altitude - Calculate
      ii. ILS-2 to Threshold
      iii. Performance Class
         1. Class
         2. CAT III Structure Tolerance
         3. Service Integrity / Continuity
2. The Runway listing will be dynamically populated based on the airport selected.
3. The State will be automatically populated by system based on the information contained in the selected airport record.
4. The Country will be automatically populated by system based on the information contained in the selected airport record.
5. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
6. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
7. The following information will not be following the concept of temporality:
   a. Office Information
   b. Contact Information

3.7 LOC

1. Following information, including but not limited to, will be captured for LOC in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Status – Listing.
      iv. Revision Number – Mandatory information.
      v. Commission Date
      vi. Effective Date – Mandatory information. Listing.
      vii. Reconfiguration Date
      viii. Effective End Date
      ix. Decommission Date
      x. Category – Mandatory information.
      xi. Owner – Listing.
      xii. Location – Mandatory information.
      xiii. State – Listing.
      xiv. Country – Mandatory information. Listing.
      xv. Data Source – Listing.
      xvi. Broadcast Identifier
      xvii. Runway – Multiple - Link.
         1. Display the following
            a. Airport Identifier
            b. Runway Number
   b. Contact Information
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   c. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC
         1. ARTCC – Listing - Multiple
   d. Monitor
      i. Monitoring Full or Part-time Flag – Listing.
      ii. Monitor Location
      iii. Hours of Operations
   e. Comments
      i. Priority

        ii.   Topic – Listing.
        iii. Date
        iv. Remark

2. The Runway listing will be dynamically populated based on the airport selected.
3. The State will be automatically populated by system based on the information contained in the selected airport record.
4. The Country will be automatically populated by system based on the information contained in the selected airport record.
5. The system will allow the user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
6. The system will allow the user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
7. The following information will not be following the concept of temporality:
   a. Office Information
   b. Contact Information

3.8 MLS

1. Following information, including but not limited to, will be captured for MLS in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Status – Listing.
      iv. Revision Number – Mandatory information.
      v. Commission Date
      vi. Effective Date – Mandatory information. Listing.
      vii. Reconfiguration Date
      viii. Effective End Date
      ix. Decommission Date
      x. Category – Mandatory information.
      xi. Location – Mandatory information.
      xii. State – Listing.
      xiii. Country – Mandatory information. Listing.
      xiv. Runway - link.

              i. Display the following
                 1. Airport Identifier
                 2. Runway Number

      xv. Owner – Listing.
      xvi. Data Source – Listing.
      xvii. Broadcast Identifier
   b. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC
          1. ARTCC – Listing - Multiple
   c. Contact Information
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   d. Monitor
      i. Monitoring Full or Part-time Flag – Listing.
      ii. Monitor Location
      iii. Hours of Operations
   e. Comments

    i. Priority
    ii. Topic – Listing.
    iii. Date
    iv. Remark

f. Distances / Measures
    i. Procedural Data
        a. Pseudo Elevation (EL)
            i. Latitude
            ii. Longitude
        b. Pseudo EL to Pseudo TH
        c. Azimuth (AZ) Bearing Crosses C/L
        d. Pseudo TH
            i. Latitude
            ii. Longitude
        e. MAP-TH Distance
        f. MAP-AZ Distance
        g. MAP
            i. Latitude
            ii. Longitude
        h. Inbound BRG Actual TH to AZ (True)
        i. Inbound BRG MAP to AZ (True)

g. Data Words
    i. Basic
        a. 1
            i. Azimuth Distance to Threshold – Non-editable.
            ii. Azimuth Prop Cvg Left – Non-editable.
            iii. Azimuth Prop Cvg Right – Non-editable.
            iv. Clearance Signal Type – Listing.
        b. 2
            i. Minimum Glide Path – Non-editable.
            ii. Azimuth Status – Listing.
            iii. Elevation Status – Listing.
            iv. DME Status – Listing.
            v. Back Azimuth Status
        c. 3
            i. Azimuth Beam width
            ii. Elevation Beam width
            iii. DME Distance – Non-editable.
        d. 4
            i. Azimuth Zero Degree Plane – Non-editable.
            ii. Back Azimuth Zero Degree Plane – Non-editable.
        e. 5
            i. Back Azimuth Prop Cvg Left – Non-editable.
            ii. Back Azimuth Prop Cvg Right – Non-editable.
            iii. Back Azimuth Beam width
        f. 6
            i. Ground Equipment Identifier – Non-editable.

    ii. Auxiliary
        a. 1
            i. Azimuth Offset – Non-editable.
            ii. Azimuth Distance to Datum Point – Non-editable.
            iii. Azimuth Runway Alignment – Non-editable.
            iv. Azimuth Coordinate System – Non-editable.
            v. Azimuth Antenna Height

      b. 2
- i. Elevation Offset – Non-editable.
- ii. Threshold Distance Datum Point – Non-editable.
- iii. Elevation Height
- iv. Datum Point Elevation – Non-editable.
- v. Threshold Height

      c. 3
- i. DME Distance Datum Point – Non-editable.
- ii. DME Offset – Non-editable.
- iii. DME Height
- iv. Stop End Runway Distance Datum Point – Non-editable.

      d. 4
- i. Back Azimuth Offset – Non-editable.
- ii. Back Azimuth to Datum Point – Non-editable.
- iii. Back Azimuth Runway Alignment – Non-editable.
- iv. Back Azimuth Coordinate System – Listing.
- v. Back Azimuth Antenna Height

2. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
3. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
4. The following information will not be following the concept of temporality:
   a. Office Information
   b. Contact Information

3.9 MSBLS

1. Following information, including but not limited to, will be captured for MSBLS in AIRNAV:
    a. General Information
        i.   NAVAID Type – Mandatory information. Non-editable.
        ii. NAVAID Identifier – Mandatory information.
        iii. Status – Listing.
        iv. Revision Number – Mandatory information.
        v.   Commission Date
        vi. Effective Date – Mandatory information. Listing.
        vii. Reconfiguration Date
        viii. Effective End Date
        ix. Decommission Date
        x.   Category – Mandatory information.
        xi. Location – Mandatory information.
        xii. State – Listing.
        xiii. Country – Mandatory information. Listing.
        xiv. Runway - link.
            i. Display the following
                1. Airport Identifier
                2. Runway Number
        xv. MSBLS String – Listing.
        xvi. Owner – Listing.
        xvii. Data Source – Listing.
        xviii. Broadcast Identifier
    b. Contact Information
        i.   Contact Role
        ii. Prefix Name
        iii. Last Name
        iv. First Name
        v.   Middle Initial
        vi. Suffix Name
        vii. Organizational Name
        viii. Address Line 1
        ix. Address Line 2
        x.   City
        xi. State - Listing.
        xii. Zip
        xiii. Phone
        xiv. Email
        xv. Remarks
    c. Office Information
        i.   Flight Inspection – Listing.
        ii. Procedure – Listing.
        iii. Region – Listing.
        iv. Service Area – Non-editable.
        v.   OCC Code – Non-editable.
        vi. Program Code – Listing.
        vii. ARTCC
            1. ARTCC – Listing - Multiple
    d. Comments
        i.   Priority
        ii. Topic – Listing.
        iii. Date

         iv. Remark
- e. Distances / Measures
  - i. Distances / Offsets / Datum Heights-MDPT
    - a. ADPT
      - i. Distance to EDPT
      - ii. Offset EDPT
      - iii. Distance to TH
      - iv. Offset Runway
    - b. EDPT
      - i. Distance to TH
      - ii. Offset Runway
    - c. Elevation
      - i. Distance to EDPT
      - ii. Offset EDPT
      - iii. Distance to TH
      - iv. Offset runway
      - v. Datum Height
    - d. Azimuth
      - i. Distance to EDPT
      - ii. Offset EDPT
      - iii. Distance to TH
      - iv. Offset Runway
      - v. Datum Height
    - e. DME
      - i. Distance to EDPT
      - ii. Offset EDPT
      - iii. Distance to TH
      - iv. Offset Runway
      - v. Datum Height
    - f. TH
      - i. Datum height
- f. Datum Points
  - i. Elevation Datum Point
    - a. Latitude
    - b. Longitude
    - c. Horizontal Datum – Listing.
    - d. Vertical Datum – Listing.
    - e. Elevation
    - f. Data Source – Listing.
  - ii. Distance from Elevation Datum Point to
    - a. Elevation
    - b. Distance
    - c. Offset
    - d. Height
  - ii. Azimuth Datum Point
    - a. Latitude
    - b. Longitude
    - c. Horizontal Datum – Listing.
    - d. Vertical Datum – Listing.
    - e. Elevation
    - f. Data Source – Listing.
  - iii. Distance from Azimuth / DME Datum Point to
    - a. Azimuth
    - b. Distance
    - c. Offset
    - d. Height

      ii.   DME

          a.   Distance

          b.   Offset

          c.   Height

2. The Runway listing will be dynamically populated based on the airport selected.
3. The State will be automatically populated by system based on the information contained in the selected airport record.
4. The Country will be automatically populated by system based on the information contained in the selected airport record.
5. The following information will not be following the concept of temporality:
   a. Office Information
   b. Contact Information

3.10 NDB

1. Following information, including but not limited to, will be captured for NDB in AIRNAV:
   a. General Information
       i. NAVAID Type – Mandatory information. Non-editable.
       ii. NAVAID Identifier – Mandatory information.
       iii. Broadcast Identifier – Mandatory information.
       iv. Classification – Mandatory information. Listing.
       v. Status – Listing.
       vi. Revision Number – Mandatory information.
       vii. Commission Date
       viii. Effective Date – Mandatory information. Listing.
       ix. Reconfiguration Date
       x. Effective End Date
       xi. Decommission Date
       xii. Class – Listing.
       xiii. Location – Mandatory information.
       xiv. State – Listing.
       xv. Country – Mandatory information. Listing.
       xvi. Owner – Listing.
       xvii. Data Source – Listing.
   b. Contact Information
       i. Contact Role
       ii. Prefix Name
       iii. Last Name
       iv. First Name
       v. Middle Initial
       vi. Suffix Name
       vii. Organizational Name
       viii. Address Line 1
       ix. Address Line 2
       x. City
       xi. State - Listing.
       xii. Zip
       xiii. Phone
       xiv. Email
       xv. Remarks
   c. Office Information
       i. Flight Inspection – Listing.
       ii. Procedure – Listing.
       iii. Region – Listing.
       iv. Service Area – Non-editable.
       v. OCC Code – Non-editable.
       vi. Program Code – Listing.
       vii. ARTCC
           1. ARTCC – Listing - Multiple
   d. Comments
       i. Priority
       ii. Topic – Listing.
       iii. Date
       iv. Remark
2. Following information will not be following the concept of temporality:
   a. Contact Information
   b. Office Information

3. System will automatically designate a NDB system as LOM, LMM or LIM based on the designated use of Marker Beacon component of the NDB System.

3.11 PAR

1. Following information, including but not limited to, will be captured for PAR in AIRNAV:
    a. General Information
        i. NAVAID Type – Mandatory information. Non-editable.
        ii. NAVAID Identifier – Mandatory information.
        iii. Status – Listing.
        iv. Revision Number – Mandatory information.
        v. Commission Date
        vi. Effective Date – Mandatory information. Listing.
        vii. Reconfiguration Date
        viii. Effective End Date
        ix. Decommission Date
        x. State
        xi. Country
        xii. Runway - link. Multiple
            1. Display the following
                A. Airport Identifier
                B. Runway Number
        xiii. Glide Slope Exists Indicator
        xiv. Owner – Listing.
        xv. Data Source – Listing.
        xvi. Broadcast Identifier
    b. Contact Information
        i. Contact Role
        ii. Prefix Name
        iii. Last Name
        iv. First Name
        v. Middle Initial
        vi. Suffix Name
        vii. Organizational Name
        viii. Address Line 1
        ix. Address Line 2
        x. City
        xi. State - Listing.
        xii. Zip
        xiii. Phone
        xiv. Email
        xv. Remarks
    c. Office Information
        i. Flight Inspection – Listing.
        ii. Procedure – Listing.
        iii. Region – Listing.
        iv. Service Area – Non-editable.
        v. OCC Code – Non-editable.
        vi. Program Code – Listing.
        vii. ARTCC
            1. ARTCC – Listing - Multiple
    d. Comments
        i. Priority
        ii. Topic – Listing.
        iii. Date
        iv. Remark
2. System will force the user to associate at least one runway served with each PAR record.
3. System will allow the user to associate multiple runways served with each PAR record.

4. The attribute 'Glide Slope Exists Indicator' will be a display only attribute. This attribute will be set to 'Yes' or 'No' by the System based on whether the runway has an active ILS NAVAID or not.
5. The following information will not be following the concept of temporality:
   a. Contact Information
   b. Office Information

3.12 SDF

1. Following information, including but not limited to, will be captured for LOC in AIRNAV:
    b. General Information
        i. NAVAID Type – Mandatory information. Non-editable.
        ii. NAVAID Identifier – Mandatory information.
        iii. Status – Listing.
        iv. Revision Number – Mandatory information.
        v. Commission Date
        vi. Effective Date – Mandatory information. Listing.
        vii. Reconfiguration Date
        viii. Effective End Date
        ix. Decommission Date
        x. Category – Mandatory information.
        xi. Owner – Listing.
        xii. Location – Mandatory information.
        xiii. State – Listing.
        xiv. Country – Mandatory information. Listing.
        xv. Data Source – Listing.
        xvi. Broadcast Identifier
        xvii. Runway – Multiple - Link.
            a. Display the following
                1. Airport Identifier
                2. Runway Number
    c. Contact Information
        i. Contact Role
        ii. Prefix Name
        iii. Last Name
        iv. First Name
        v. Middle Initial
        vi. Suffix Name
        vii. Organizational Name
        viii. Address Line 1
        ix. Address Line 2
        x. City
        xi. State - Listing.
        xii. Zip
        xiii. Phone
        xiv. Email
        xv. Remarks
    d. Office Information
        i. Flight Inspection – Listing.
        ii. Procedure – Listing.
        iii. Region – Listing.
        iv. Service Area – Non-editable.
        v. OCC Code – Non-editable.
        vi. Program Code – Listing.
        vii. ARTCC
            1. ARTCC – Listing - Multiple
    e. Monitor
        i. Monitoring Full or Part-time Flag – Listing.
        ii. Monitor Location
        iii. Hours of Operations
    f. Comments
        i. Priority

              ii. Topic – Listing.

              iii. Date

              iv. Remark

        g. Distances / Measure

              i. FAF

                  a. Distance to Threshold – Pull from SIAP

                  b. Tapeline - Calculate

                  c. Earth Curve - Calculate

                  d. MSL Altitude - Calculate

              ii. ILS-2 to Threshold

2. The Runway listing will be dynamically populated based on the airport selected.

3. The State will be automatically populated by system based on the information contained in the selected airport record.

4. The Country will be automatically populated by system based on the information contained in the selected airport record.

5. The system will allow the user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.

6. The system will allow the user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.

7. The following information will not be following the concept of temporality:

    a. Office Information

    b. Contact Information

3.13 SECRA

1. Following information, including but not limited to, will be captured for SECRA in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Broadcast Identifier – Mandatory information.
      iv. Model – Mandatory information. Listing.
      v. Status – Listing.
      vi. Revision Number – Mandatory information.
      vii. Commission Date
      viii. Effective Date – Mandatory information. Listing.
      ix. Reconfiguration Date
      x. Effective End Date
      xi. Decommission Date
      xii. Location – Mandatory information.
      xiii. State – Listing.
      xiv. Country – Mandatory information. Listing.
      xv. Owner – Listing.
      xvi. Data Source – Listing.
   b. Contact Information
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   c. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC
         1. ARTCC – Listing - Multiple
   d. Comments
      i. Priority
      ii. Topic – Listing.
      iii. Date
      iv. Remark
2. The following information will not be following the concept of temporality:
   a. Contact Information
   b. Office Information

3.14 TACAN

1. Following information, including but not limited to, will be captured for TACAN in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Broadcast Identifier – Mandatory information.
      iv. Model – Mandatory information. Listing.
      v. Status – Listing.
      vi. Revision Number – Mandatory information.
      vii. Commission Date
      viii. Effective Date – Mandatory information. Listing.
      ix. Reconfiguration Date
      x. Effective End Date
      xi. Decommission Date
      xii. Location – Mandatory information.
      xiii. State – Listing.
      xiv. Class – Listing.
      xv. Country – Mandatory information. Listing.
      xvi. Monitor Category – Listing.
      xvii. Owner – Listing.
      xviii. Data Source – Listing.
   b. Contact Information
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   c. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC
         a. ARTCC – Listing - Multiple
   d. Monitor
      i. Monitoring Full or Part-time Flag – Listing.
      ii. Monitor Location
      iii. Hours of Operations
   e. Comments
      i. Priority
      ii. Topic – Listing.
      iii. Date
      iv. Remark

2. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
3. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
4. The Channel listing is display only. The data resides with the component. The display will consist of the following:
    a. VOR Frequency
    b. Channel
5. The following information will not be following the concept of temporality:
    a. Contact Information
    b. Office Information

3.15 TLS

1. Following information, including but not limited to, will be captured for TLS in AIRNAV:
    a. General Information
        i.   NAVAID Type – Mandatory information. Non-editable.
        ii.   NAVAID Identifier – Mandatory information.
        iii. MagVar/Year
        iv.   Status – Listing.
        v.   Revision Number – Mandatory information.
        vi.   Commission Date
        vii. Effective Date – Mandatory information. Listing.
        viii. Reconfiguration Date
        ix.   Effective End Date
        x.   Decommission Date
        xi.   Category – Mandatory information.
        xii. Runway - link.
            a. Display the following
                1. Airport Identifier
                2. Runway Number
                3. State
                4. Country
        xiii. Owner – Listing.
        xiv. Data Source – Listing.
    b. Contact Information
        i.   Contact Role
        ii.   Prefix Name
        iii. Last Name
        iv.   First Name
        v.   Middle Initial
        vi.   Suffix Name
        vii. Organizational Name
        viii. Address Line 1
        ix.   Address Line 2
        x.   City
        xi.   State - Listing.
        xii. Zip
        xiii. Phone
        xiv. Email
        xv.   Remarks
    c. Office Information
        i.   Flight Inspection – Listing.
        ii.   Procedure – Listing.
        iii. Region – Listing.
        iv.   Service Area – Non-editable.
        v.   OCC Code – Non-editable.
        vi.   Program Code – Listing.
        vii. ARTCC
            1. ARTCC – Listing - Multiple
    d. Monitor
        i.   Monitoring Full or Part-time Flag – Listing.
        ii.   Monitor Location
        iii. Hours of Operations
    e. Comments
        i.   Priority
        ii.   Topic – Listing.

        iii.   Date

        iv.   Remark

   f.   Distances / Measures

       i. FAF

           a. Distance to Threshold – Pull from SIAP

           b. Tapeline - Calculate

           c.   Earth Curve - Calculate

           d.   MSL Altitude - Calculate

       ii.   ILS-2 to Threshold

       i.   Performance Class

           a.   Class

           b.   CAT III Structure Tolerance

           c.   Service Integrity / Continuity

2. The Runway listing will be dynamically populated based on the airport selected.
3. The State will be automatically populated by system based on the information contained in the selected airport record.
4. The Country will be automatically populated by system based on the information contained in the selected airport record.
5. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
6. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
7. The following information will not be following the concept of temporality:
   a. Contact Information
   b. Office Information

3.16 VDME

1. Following information, including but not limited to, will be captured for VDME in AIRNAV:
    a. General Information
        i. NAVAID Type – Mandatory information. Non-editable.
        ii. NAVAID Identifier – Mandatory information.
        iii. MagVar/Year
        iv. Status – Listing.
        v. Revision Number – Mandatory information.
        vi. Commission Date
        vii. Effective Date – Mandatory information. Listing.
        viii. Reconfiguration Date
        ix. Effective End Date
        x. Decommission Date
        xi. Location – Mandatory information.
        xii. State – Listing.
        xiii. Country – Mandatory information. Listing.
        xiv. Class – Listing.
        xv. Monitor Category – Listing.
        xvi. Owner – Listing.
        xvii. Data Source – Listing.
    b. Contact Information
        i. Contact Role
        ii. Prefix Name
        iii. Last Name
        iv. First Name
        v. Middle Initial
        vi. Suffix Name
        vii. Organizational Name
        viii. Address Line 1
        ix. Address Line 2
        x. City
        xi. State - Listing.
        xii. Zip
        xiii. Phone
        xiv. Email
        xv. Remarks
    c. Office Information
        i. Flight Inspection – Listing.
        ii. Procedure – Listing.
        iii. Region – Listing.
        iv. Service Area – Non-editable.
        v. OCC Code – Non-editable.
        vi. Program Code – Listing.
        vii. ARTCC
            1. ARTCC – Listing - Multiple
    d. Monitor
        i. Monitoring Full or Part-time Flag – Listing.
        ii. Monitor Location
        iii. Hours of Operations
    e. Comments
        i. Priority
        ii. Topic – Listing.
        iii. Date
        iv. Remark

2. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
3. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
4. The Frequency is display only. The data resides with the component. The display will consist of the following:
   a. VOR Frequency
   b. Channel
5. The following information will not be following the concept of temporality:
   a. Contact Information
   b. Office Information

3.17 VOR

1. Following information, including but not limited to, will be captured for VOR in AIRNAV:
    a. General Information
        i. NAVAID Type – Mandatory information. Non-editable.
        ii. NAVAID Identifier – Mandatory information.
        iii. MagVar/Year
        iv. Status – Listing.
        v. Revision Number – Mandatory information.
        vi. Commission Date
        vii. Effective Date – Mandatory information. Listing.
        viii. Reconfiguration Date
        ix. Effective End Date
        x. Decommission Date
        xi. Location – Mandatory information.
        xii. State – Listing.
        xiii. Class – Listing.
        xiv. Country – Mandatory information. Listing.
        xv. Monitor Category – Listing.
        xvi. Frequency – Listing.
        xvii. Owner – Listing.
        xviii. Data Source – Listing.
    b. Contact Information
        i. Contact Role
        ii. Prefix Name
        iii. Last Name
        iv. First Name
        v. Middle Initial
        vi. Suffix Name
        vii. Organizational Name
        viii. Address Line 1
        ix. Address Line 2
        x. City
        xi. State - Listing.
        xii. Zip
        xiii. Phone
        xiv. Email
        xv. Remarks
    c. Office Information
        i. Flight Inspection – Listing.
        ii. Procedure – Listing.
        iii. Region – Listing.
        iv. Service Area – Non-editable.
        v. OCC Code – Non-editable.
        vi. Program Code – Listing.
        vii. ARTCC
            1. ARTCC – Listing - Multiple
    d. Monitor
        i. Monitoring Full or Part-time Flag – Listing.
        ii. Monitor Location
        iii. Hours of Operations
    e. Comments
        i. Priority
        ii. Topic – Listing.

        iii. Date

        iv. Remark

2. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.

3. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.

4. The following information will not be following the concept of temporality:

    a. Contact Information

    b. Office Information

3.18 VORTAC

1. Following information, including but not limited to, will be captured for VORTAC in AIRNAV:
    a. General Information
        i. NAVAID Type – Mandatory information. Non-editable.
        ii. NAVAID Identifier – Mandatory information.
        iii. Broadcast Identifier – Mandatory information.
        iv. Model – Mandatory information. Listing.
        v. Status – Listing.
        vi. Revision Number – Mandatory information.
        vii. Commission Date
        viii. Effective Date – Mandatory information. Listing.
        ix. Reconfiguration Date
        x. Effective End Date
        xi. Decommission Date
        xii. Location – Mandatory information.
        xiii. MagVar/Year
        xiv. State – Listing.
        xv. Class – Listing.
        xvi. Country – Mandatory information. Listing.
        xvii. Monitor Category – Listing.
        xviii. Frequency – Listing.
        xix. Owner – Listing.
        xx. Data Source – Listing.
    b. Contact Information
        i. Contact Role
        ii. Prefix Name
        iii. Last Name
        iv. First Name
        v. Middle Initial
        vi. Suffix Name
        vii. Organizational Name
        viii. Address Line 1
        ix. Address Line 2
        x. City
        xi. State - Listing.
        xii. Zip
        xiii. Phone
        xiv. Email
        xv. Remarks
    c. Office Information
        i. Flight Inspection – Listing.
        ii. Procedure – Listing.
        iii. Region – Listing.
        iv. Service Area – Non-editable.
        v. OCC Code – Non-editable.
        vi. Program Code – Listing.
        vii. ARTCC
            1. ARTCC – Listing - Multiple
    d. Monitor
        i. Monitoring Full or Part-time Flag – Listing.
        ii. Monitor Location
        iii. Hours of Operations
    e. Comments

        i. Priority
        ii. Topic – Listing.
        iii. Date
        iv. Remark

2. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
3. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
4. The Frequency is display only. The data resides with the component. The display will consist of the following:
    a. VOR Frequency
    b. Channel
5. The system will allow the user to select value in 'Qualifier' only if user has selected the 'Component' as 'TACAN'.
6. The following information will not be following the concept of temporality:
    a. Contact Information
    b. Office Information

3.19 VOT

1. Following information, including but not limited to, will be captured for VOT in AIRNAV:
   a. General Information
      i. NAVAID Type – Mandatory information. Non-editable.
      ii. NAVAID Identifier – Mandatory information.
      iii. Broadcast Identifier – Mandatory information.
      iv. Model – Mandatory information. Listing.
      v. Status – Listing.
      vi. Revision Number – Mandatory information.
      vii. Commission Date
      viii. Effective Date – Mandatory information. Listing.
      ix. Reconfiguration Date
      x. Effective End Date
      xi. Decommission Date
      xii. Location – Mandatory information.
      xiii. MagVar/Year
      xiv. State – Listing.
      xv. Class – Listing.
      xvi. Country – Mandatory information. Listing.
      xvii. Monitor Category – Listing.
      xviii. Frequency – Listing.
      xix. Owner – Listing.
      xx. Data Source – Listing.
   b. Contact Information
      i. Contact Role
      ii. Prefix Name
      iii. Last Name
      iv. First Name
      v. Middle Initial
      vi. Suffix Name
      vii. Organizational Name
      viii. Address Line 1
      ix. Address Line 2
      x. City
      xi. State - Listing.
      xii. Zip
      xiii. Phone
      xiv. Email
      xv. Remarks
   c. Office Information
      i. Flight Inspection – Listing.
      ii. Procedure – Listing.
      iii. Region – Listing.
      iv. Service Area – Non-editable.
      v. OCC Code – Non-editable.
      vi. Program Code – Listing.
      vii. ARTCC
         1. ARTCC – Listing - Multiple
   d. Monitor
      i. Monitoring Full or Part-time Flag – Listing.
      ii. Monitor Location
      iii. Hours of Operations
   e. Comments
      i. Priority

        ii. Topic – Listing.

        iii. Date

        iv. Remark

2. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.

3. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.

4. The Frequency is display only. The data resides with the component. The display will consist of the following:

    a. VOR Frequency

    b. Channel

5. Following information will not be following the concept of temporality:

    a. Contact Information

    b. Office Information

4 NAVAID Component Specific Business Rules

4.1 ARSR

1. Following information, including but not limited to, will be captured for ARSR component in AIRNAV:
   a. General Information
      i. Name
      ii. MagVar/Year
   b. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
   c. Equipment Information
      i. Channel Indicator – Listing.
      ii. Equipment Type – Listing.
      iii. Antenna Tilt – Listing.
      iv. Tilt Angle
      v. Vertical Coverage
         1. Altitude
         2. Distance
         3. Azimuth
      vi. Standby Power – Listing.
      vii. Serial Number
      viii. ARTS – Listing.
      ix. Moving Target Indicator
      x. Video Map Indicator
      xi. Program – Listing.
   d. Radarscope Location - Multiple
      i. Radarscope Location

2. The following information will not be following the concept of temporality:
      i. Equipment Information
      ii. Radarscope Location

3. The following information will not be following the concept of temporality:
      i. Equipment Information
      ii. Radarscope Location
4. The attribute 'Channel Indicator' will have 2 options: Single and Dual.

4.2 ASR

1. Following information, including but not limited to, will be captured for ASR component in AIRNAV:
   a. General Information
      i. Name
      ii. MagVar/Year
      iii. Military Use Only Indicator
      iv. VFR Only Indicator
      v. Special Use Only – Listing.
      vi. Special Aircraft Only – Listing.
   b. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
   c. Equipment Information
      i. Channel Indicator – Listing.
      ii. Equipment Type – Listing.
      iii. Antenna Tilt – Listing.
      iv. Tilt Angle
      v. Vertical Coverage
         1. Altitude
         2. Distance
         3. Azimuth
      vi. Standby Power – Listing.
      vii. Serial Number
      viii. ARTS – Listing.
      ix. Moving Target Indicator
      x. Video Map Indicator
      xi. Program – Listing.
   d. Radarscope Location - Multiple
      i. Radarscope Location

2. The following information will not be following the concept of temporality:
      i. Equipment Information
      ii. Radarscope Location
3. The attribute 'Channel Indicator' will have 2 options: Single and Dual.

4.3 AZIMUTH

1. Following information, including but not limited to, will be captured for AZ component in AIRNAV:
    a. General Information
        i. Location
        ii. Name
        iii. MagVar/Year
        iv. Phase Center Height
        iv. Military Use Only Indicator
        v. VFR Only Indicator
        vi. Special Use Only – Listing.
        vii. Special Aircraft Only – Listing.
    b. Equipment Information
        i. Type Indicator – Listing.
        ii. Transmitter Indicator – Listing.
        iii. Monitor Category – Listing.
        iv. OCI Indicator
        v. Equipment Type – Listing.
        vi. Other Equipment Type
        vii. Antenna Type – Listing.
        viii. Channel
        ix. Monitor Reference Limit
        x. Program Code – Listing
    c. Coordinates
        i. Latitude
        ii. Longitude
        iii. Elevation
        iv. Elevation Unit of Measure
        v. Horizontal Datum – Listing.
        vi. Vertical Datum – Listing
        vii. Ellipsoid Elevation
        viii. Ellipsoid Elevation Unit of Measure
        ix. Ellipsoid Horizontal Datum – Listing.
        x. Ellipsoid Vertical Datum - Listing
        xi. Ellipsoid Model
    d. Course
        i. Usable
            1. Distance
            2. Altitude
        ii. Proportional Cov
            1. 90 Hz
            2. 150 Hz0 Hz
        iii. Clearance Cov
            1. 90 Hz
            2. 15
        iv. Align From
        v. Align To
    e. Distance and Measures
        i. Azimuth
            1. Antenna Offset
            2. Runway Angle
            3. True Heading
            4. Azimuth Distance To:
                a. Threshold

         b. Stop End Runway
         c. Datum Point
    ii. Back Azimuth
              1. Antenna Offset
              2. Runway Angle
              3. True Heading
              4. Back Azimuth Distance To:
                   a. Threshold
                   b. Stop End Runway
                   c. Datum Point
  f. Restrictions
    i. Effective Date
    ii. Effective End Date
    iii. Comments
                   a. Priority
                   b. Topic – Listing.
                   c. Date
                   d. Remark
    iv. Restriction
                   a. Azimuth From
                   b. Azimuth To
                   c. Distance Beyond
                   d. Distance Within
                   e. DME Beyond
                   f. DME Within
                   g. Altitude Above
                   h. Altitude Below

3. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
4. Following attributes will not apply to the AZ component record of the MSBLS NAVAID system:
  g. Transmitter Indicator
  h. OCI Indicator
  i. Antenna Type
  j. Elevation
  k. Usable
       i. Distance
       ii. Altitude
  l. Clearance Cov
       i. 90 Hz
       ii. 150 Hz
  m. Align From
  n. Align To
5. The attribute 'Type Indicator' will have 2 options: Azimuth and Back Azimuth.
6. System will allow only one active AZ component record with type indicator selected as 'Azimuth' to be attached to a NAVAID system record at any given point of time
7. System will allow only one active AZ component record with type indicator selected as 'Back Azimuth' to be attached to a NAVAID system record at any given point of time.
8. The following information will not be following the concept of temporality:
  a. Equipment Information
  b. Restrictions

4.4 DF

2. Following information, including but not limited to, will be captured for DF component in AIRNAV:
   a. General Information
      i. Name
      ii. MagVar/Year
      iii. Military Use Only Indicator
      iv. VFR Only Indicator
      v. Special Use Only – Listing.
      vi. Special Aircraft Only – Listing.
   b. Equipment Information
      i. Equipment Type – Listing
      ii. Doppler Indicator
      iii. Class – Listing
      iv. Voice – Listing.
      v. Rec Type – Listing.
      vi. Standby Power – Listing.
      vii. Program Code – Listing.
      viii. Frequency
   c. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
   d. Receiver Checkpoint
      i. Type – Mandatory information. Listing.
      ii. Airport Id
      iii. Altitude
      iv. Distance – Mandatory information.
      v. Radial – Mandatory information.
      vi. Description – Mandatory information.
   e. Restrictions
      i. Effective Start Date
      ii. Effective End Date
      iii. Comments
         a. Priority
         b. Topic – Listing.
         c. Date
         d. Remark
      iv. Restriction
         a. Azimuth From
         b. Azimuth To
         c. Distance Beyond
         d. Distance Within
         e. Altitude Above
         f. Altitude Below

3. The attribute 'Altitude' within the Receiver Checkpoint section will be mandatory information, if user selects the value for the attribute 'Type' as 'Air'.
4. The attribute 'Altitude' within the Receiver Checkpoint section will not be required, if user selects the value for the attribute 'Type' as 'Ground'.
5. The following information will not be following the concept of temporality:
   a. Equipment Information
   b. Receiver Checkpoint
   c. Restrictions

4.5 DME

1. Following information, including but not limited to, will be captured for DME component in AIRNAV:
   a. General Information
      i. Location
      ii. Name
      iii. MagVar/Year
      iv. Channel
      v. Phase Center Height
      a. Military Use Only Indicator
      b. VFR Only Indicator
      c. Special Use Only – Listing.
      d. Special Aircraft Only – Listing.
   b. Equipment Information
      i. Monitor Category – Listing.
      ii. Equipment Type – Listing.
      iii. Other Equipment Type
      iv. Doppler Indicator
      v. Class – Listing.
      vi. Transmitter Indicator – Listing.
      vii. Standby Power – Listing.
      viii. Program – Listing.
   c. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
   d. Distances / Measures
      a. Antenna Offset
      b. FAF / Checkpoint (not MLS)
      c. DME Distance To
         i. Threshold
         ii. Datum Point (MLS only)
         iii. Stop End of Runway
      d. Center Line Abeam (not MLS)
   o. Restrictions
      i. Effective Date
      ii. Effective End Date
      iii. Comments
         a. Priority
         b. Topic – Listing.
         c. Date
         d. Remark
      iv. Restriction
         a. Azimuth From
         b. Azimuth To
         c. Distance Beyond
         d. Distance Within

   e. DME Beyond
   f. DME Within
   g. Altitude Above
   h. Altitude Below

2. Following attributes will not apply to the DME component record of the VDME, VORTAC, TACAN, NDB and DME NAVAID systems:
   a. Location
   b. Class

3. Following attributes will not apply to the DME component record of the VDME, VORTAC, TACAN and DME NAVAID systems:
   a. Monitor Category

4. Following attributes will not apply to the DME component record of the MSBLS NAVAID systems:
   a. Channel
   b. Elevation

5. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.

6. Following attributes will only apply to the DME component record of the MSBLS NAVAID systems:
   a. Phase Center Height

7. System will allow the user to enter values for T2, only if the attribute 'Transmitter Indicator' is selected as 'Dual'.

8. The following information will not be following the concept of temporality:
   a. Equipment Information
   b. Restrictions

4.6 ELEV

1. Following information, including but not limited to, will be captured for ELEV component in AIRNAV:
   a. General Information
      i. Location
      ii. Name
      iii. MagVar/Year
      iv. Military Use Only Indicator
      v. VFR Only Indicator
      vi. Special Use Only – Listing.
      vii. Special Aircraft Only – Listing.
   b. Equipment Information
      i. Monitor Ref Limit
      ii. Monitor Category
      iii. Equipment Type – Listing.
      iv. Other Equipment Type
      v. Transmitter Indicator – Listing.
      vi. Standby – Listing.
      vii. Program – Listing.
   c. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
      xii. Phase Center Elevation
   d. Course
      i. Proportional Cov
         1. 90 Hz
         2. 150 Hz
   e. Distances / Measures
      i. Commissioned Angle
      ii. Antenna Offset
      iii. Threshold
      iv. Stop End Runway
      v. Datum Point Coordinates
         1. Latitude
         2. Longitude
      vi. Threshold Crossing Height
      vii. GPI Threshold
      viii. Datum Point elevation
      ix. Threshold To Point C
      x. RPI Threshold
   f. Restrictions
      i. Effective Start Date
      ii. Effective End Date
      iii. Comments
         a. Priority

           b.   Topic – Listing.
           c.   Date
           d.   Remark

     iv.   Restriction

           a.   Azimuth From
           b.   Azimuth To
           c.   Distance Beyond
           d.   Distance Within
           e.   DME Beyond
           f.   DME Within
           g.   Altitude Above
           h.   Altitude Below

2. Following attributes will not apply to the ELEV component record of the MLS NAVAID system:
   a. All the attributes under the 'Course' section.
3. Following attributes will not apply to the ELEV component record of the MSBLS NAVAID system:
   a. Transmitter Indicator
4. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
5. The following information will not be following the concept of temporality:
   a. Equipment Information
   b. Receiver Checkpoint
   c. Restrictions

4.7 FAN

1. Following information, including but not limited to, will be captured for FAN component in AIRNAV:
   a. General Information
      i. Location
      ii. Name
   b. Equipment Information
      i. Monitor Category – Listing.
      ii. Standby Power – Listing.
      iii. Transmitter Indicator – Listing.
      iv. Width
      v. Program Code – Listing.
   c. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
2. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
3. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
4. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
5. The following information will not be following the concept of temporality:
   a. Equipment Information

4.8 GS

1. Following information, including but not limited to, will be captured for GS component in AIRNAV:
    a. General Information
        i. Location
        ii. Name
        iii. MagVar/Year
        a. Military Use Only Indicator
        b. VFR Only Indicator
        c. Special Use Only – Listing.
        d. Special Aircraft Only – Listing.
        e. Type Indicator
    b. Equipment Information
        i. Monitor Category – Listing.
        ii. Equipment Type – Listing.
        iii. Antenna Type – Listing.
        iv. Transmitter Indicator – Listing.
        v. Dual Frequency Indicator – Listing.
        vi. Frequency – Listing.
        vii. Standby Power – Listing.
        viii. Program – Listing.
        ix. CBP-TH – Listing.
    c. Coordinates
        i. Latitude
        ii. Longitude
        iii. Elevation
        iv. Elevation Unit of Measure
        v. Horizontal Datum – Listing.
        vi. Vertical Datum – Listing
        vii. Ellipsoid Elevation
        viii. Ellipsoid Elevation Unit of Measure
        ix. Ellipsoid Horizontal Datum – Listing.
        x. Ellipsoid Vertical Datum - Listing
        xi. Ellipsoid Model
    d. Point 47 Data
        i. Commissioned IAW 8240. – Listing.
        ii. Reference Datum Height
        iii. Used Indicator
        iv. Reference Elevation Used For Flight Inspection
        v. Achieved Reference Datum Height
        vi. Used Indicator
        vii. GPI Threshold
        viii. Exception to 3ft. Rule Indicator
        ix. Date Applied
    e. Distances / Measures
        a. Antenna Offset
        b. Glide Slope Distance To
            i. Threshold
            ii. Inner Marker
            iii. Middle Marker
            iv. Outer Marker
            v. LOC
            vi. FAF

        c. AFIS Coordinates – Listing.

    d. Commissioned Angle
    e. AFIS Height
    f. Type Elevation Used for Calculations – Listing.
    g. Threshold Crossing Height
    h. Ground Point Intercept Threshold
    i. Elevation Value Used for Calculations – Non-editable.
    j. Threshold To Point C
    k. Runway Point Intercept Threshold
    l. Decision Height - Display only – Pull from SIAP
        i. 100
            1. Distance
            2. Radio Altitude
        ii. 150
            1. Distance
            2. Radio Altitude
        iii. 200
            1. Distance
            2. Radio Altitude

    m. Monitor Angle
        i. High
        ii. Low
    n. Aiming Point Coordinates
        i. Latitude
        ii. Longitude
    o. Elevation Abeam Center Line
    p. Procedural Data
        a. Pseudo GS
            i. Latitude
            ii. Longitude
        b. Pseudo GS to Pseudo TH
        c. Pseudo TH
            iii. Latitude
            iv. Longitude
  d. Restrictions
    i. Effective Start Date
    ii. Effective End Date
    iii. Comments
        a. Priority
        b. Topic – Listing.
        c. Date
        d. Remark
    iv. Restriction
        a. Azimuth From
        b. Azimuth To
        c. Distance Beyond
        d. Distance Within
        e. DME Beyond
        f. DME Within
        g. Altitude Above
        h. Altitude Below

2. The attribute 'Type Indicator' will have only 2 values: Actual and Apparent.
3. System will automatically set the attribute 'Type Indicator' to 'Actual', when this component is added to an ILS NAVAID system record.

4. System will automatically set the attribute 'Type Indicator' to 'Apparent', when this component is added to a TLS NAVAID system record.
5. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
6. The 'Antenna Offset' will capture the direction (Left or Right) and the distance as a positive whole number only.
7. The following information will not be following the concept of temporality:
   a. Equipment Information
   b. Restrictions

4.9 LOC

1. Following information, including but not limited to, will be captured for LOC component in AIRNAV:
    a. General Information
        i. Location
        ii. Name
        iii. MagVar/Year
        iv. Type Indicator
        v. Frequency – Listing.
        vi. Military Use Only Indicator
        vii. VFR Only Indicator
        viii. Special Use Only – Listing.
        ix. Special Aircraft Only – Listing.
    b. Equipment Information
        i. Monitor Category – Listing.
        ii. Equipment Type – Listing.
        iii. Antenna Type – Listing.
        iv. Transmitter Indicator – Listing.
        v. Voice – Listing.
        vi. Dual Frequency Indicator – Listing.
        vii. Rec Type – Listing.
        viii. Standby Power
        ix. Program Code – Listing.
        x. Rollout – Listing.
    c. Coordinates
        i. Latitude
        ii. Longitude
        iii. Elevation
        iv. Elevation Unit of Measure
        v. Horizontal Datum – Listing.
        vi. Vertical Datum – Listing
        vii. Ellipsoid Elevation
        viii. Ellipsoid Elevation Unit of Measure
        ix. Ellipsoid Horizontal Datum – Listing.
        x. Ellipsoid Vertical Datum - Listing
        xi. Ellipsoid Model
    d. Course
        i. Type – Listing.
        ii. Usable
            1. Distance
            2. Altitude
        iii. Clearance Cov
            1. 90 Hz
            2. 150 Hz
        iv. Back Course Status – Listing.
        v. FAF Description Last Update
        vi. Align From
        vii. Align To
    e. Distances / Measures
        i. Runway
        ii. Apparent Indicator
        iii. Antenna Offset
        iv. Localizer Distance To
            1. Threshold
            2. Stop End of Runway

                    3. Inner Marker
                    4. Middle Marker
                    5. Outer Marker
                    6. FAF
            v. LDA Indicator
            vi. True Bearings
                    1. FC
                    2. BC
            vii. Monitor Wide
            viii. Monitor Narrow
            ix. LCW
            x. LCW Threshold
            xi. LCW Tailored – Non-editable
            xii. Procedural Data
                    1. LOC Bearing Crosses C/L
            xiii. FAF
                    1. Distance to Threshold – Pull from SIAP
                    2. Tapeline - Calculate
                    3. Earth Curve - Calculate
                    4. MSL Altitude - Calculate
            xiv. ILS-2 to Threshold
    f. Restrictions
            i. Service Date
            ii. Comments
                    a. Priority
                    b. Topic – Listing.
                    c. Date
                    d. Remark
            iii. Restriction
                    a. Azimuth From
                    b. Azimuth To
                    c. Distance Beyond
                    d. Distance Within
                    e. DME Beyond
                    f. DME Within
                    g. Altitude Above
                    h. Altitude Below

2. The following Restrictions have no temporality.
3. The attribute 'Type Indicator' will have only 2 values: Actual and Apparent.
4. System will automatically set the attribute 'Type Indicator' to 'Actual', when this component is added to an ILS NAVAID system record.
5. System will automatically set the attribute 'Type Indicator' to 'Apparent', when this component is added to a TLS NAVAID system record.
6. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
7. The system will allow user to select any value for the attribute 'Back Course Status', only if the attribute 'Type' is selected as 'Back'.
8. The 'Antenna Offset' will capture the direction (Left or Right) and the distance as a positive whole number only.
9. The system will allow the user to select value in 'Qualifier' only if user has selected the 'Component' as 'LOC'.
10. The following information will not be following the concept of temporality:
    a. Equipment Information
    b. Restrictions

4.10 MB

1. Following information, including but not limited to, will be captured for MB component in AIRNAV:
    a. General Information
        i. Name
        ii. MagVar/Year
    b. Equipment Information
        i. Monitor Category – Listing.
        ii. Standby Power – Listing.
        iii. Transmitter Indicator – Listing.
        iv. Width
        v. Program – Listing.
        vi. Used As – Listing.
    c. Coordinates
        i. Latitude
        ii. Longitude
        iii. Elevation
        iv. Elevation Unit of Measure
        v. Horizontal Datum – Listing.
        vi. Vertical Datum – Listing
        vii. Ellipsoid Elevation
        viii. Ellipsoid Elevation Unit of Measure
        ix. Ellipsoid Horizontal Datum – Listing.
        x. Ellipsoid Vertical Datum - Listing
        xi. Ellipsoid Model
    d. Distance and Measures
        i. Inner Marker
        ii. Distance to Threshold
        iii. Antenna Offset
        iv. Tapeline
        v. Earth Curve
        vi. MSL Altitude
            1. Middle Marker
                a. Distance to Threshold
                b. Antenna Offset
                c. Tapeline
                d. Earth Curve
                e. MSL Altitude
            2. Outer Marker
                a. Distance to Threshold
                b. Antenna Offset
                c. Tapeline
                d. Earth Curve
                e. MSL Altitude
2. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
3. The attribute 'Used As' will have following options: Outer Marker, Middle Marker and inner Marker.
4. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
5. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
6. The following information will not be following the concept of temporality:
    a. Equipment Information

4.11 NDB

1. Following information, including but not limited to, will be captured for NDB component in AIRNAV:
   a. General Information
      i. Name
      ii. MagVar/Year
      iii. Frequency
      iv. Military Use Only Indicator
      v. VFR Only Indicator
      vi. Special Use Only – Listing.
      vii. Special Aircraft Only – Listing.
   b. Equipment Information
      i. Monitor Category – Listing.
      ii. Voice – Listing.
      iii. Transmitter Indicator – Listing.
      iv. Rec Type – Listing.
      v. Standby – Listing.
      vi. Program – Listing.
   c. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
   d. Restrictions
      i. Service Date
      ii. Comments
               a. Priority
               b. Topic – Listing.
               c. Date
               d. Remark
      iii. Restriction
               a. Azimuth From
               b. Azimuth To
               c. Distance Beyond
               d. Distance Within
               e. DME Beyond
               f. DME Within
               g. Altitude Above
               h. Altitude Below
2. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
3. The system will allow user to select value in 'Monitoring Full or Part-time Flag', only if user has entered some value in 'Location'.
4. The system will allow user to select value in 'Hours of Operations', only if user has entered some value in 'Location'.
5. The following information will not be following the concept of temporality:
   a. Equipment Information
   b. Restrictions

4.12 PAR

1. Following information, including but not limited to, will be captured for PAR component in AIRNAV:
   a. General Information
      i. Location
      ii. Name
      iii. MagVar/Year
      iv. Channel Indicator – Listing.
      v. Military Use Only Indicator
      vi. VFR Only Indicator
      vii. Special Use Only – Listing.
      viii. Special Aircraft Only – Listing.
   b. Equipment Information
      i. Equipment Type – Listing.
      ii. Moving Target Indicator
      iii. Serial Number
      iv. Standby Power – Listing.
      v. Program Code – Listing.
   c. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
   d. Distance and Measures
      i. Antenna Offset
      ii. Angle
      iii. Ground Point Intercept Coordinates
         a. Latitude
         b. Longitude
      iv. Ground Point Intercept Threshold
      v. Threshold Crossing Height
   e. Touchdown Reflector
      i. Latitude
      ii. Longitude
      iii. Elevation
   f. RPI Elevation
   g. Restrictions
      i. Service Date
      ii. Comments
         1. Priority
         2. Topic – Listing.
         3. Date
         4. Remark
      iii. Restriction
         1. Azimuth From
         2. Azimuth To
         3. Distance Beyond
         4. Distance Within

     5. DME Beyond
     6. DME Within
     7. Altitude Above
     8. Altitude Below

2. The attribute 'Channel Indicator' will have 2 options: Single and Dual.
3. The following information will not be following the concept of temporality:
    a. Equipment Information
    b. Restrictions
    c. Touchdown Reflector

4.13 SDF

1. Following information, including but not limited to, will be captured for SDF component in AIRNAV:
    a. General Information
        i. Location
        ii. Monitor Category – Listing.
        iii. Name
        iv. MagVar/Year
        v. Military Use Only Indicator
        vi. VFR Only Indicator
        vii. Special Use Only – Listing.
        viii. Special Aircraft Only – Listing.
    b. Equipment Information
        i. Transmitter Indicator – Listing.
        ii. Equipment Type – Listing.
        iii. Antenna Type – Listing.
        iv. Voice – Listing.
        v. Dual Frequency Indicator – Listing.
        vi. Frequency – Listing.
        vii. Rec Type – Listing.
        viii. Standby Power – Listing.
        ix. Program Code – Listing.
    c. Coordinates
        i. Latitude
        ii. Longitude
        iii. Elevation
        iv. Elevation Unit of Measure
        v. Horizontal Datum – Listing.
        vi. Vertical Datum – Listing
        vii. Ellipsoid Elevation
        viii. Ellipsoid Elevation Unit of Measure
        ix. Ellipsoid Horizontal Datum – Listing.
        x. Ellipsoid Vertical Datum - Listing
        xi. Ellipsoid Model
    d. Course
        i. Type – Listing.
        ii. Usable
            1. Distance
            2. Altitude
        iii. Clearance Cov
            1. 90 Hz
            2. 150 Hz
        iv. Back Course Status – Listing.
        v. FAF Description Last Update
        vi. Align From
        vii. Align To
    e. Restrictions
        i. Service Date
        ii. Comments
            a. Priority
            b. Topic – Listing.
            c. Date
            d. Remark
        iii. Restriction

       a.   Azimuth From
       b.   Azimuth To
       c.   Distance Beyond
       d.   Distance Within
       e.   DME Beyond
       f.   DME Within
       g.   Altitude Above
       h.   Altitude Below

2. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
3. The system will allow user to select any value for the attribute 'Back Course Status', only if the attribute 'Type' is selected as 'Back'.
4. The following information will not be following the concept of temporality:
       a.   Equipment Information
       b.   Restrictions

4.14 SECRA

1. Following information, including but not limited to, will be captured for SECRA component in AIRNAV:
   a. General Information
      i. Name
      ii. MagVar/Year
      iii. Military Use Only Indicator
      iv. VFR Only Indicator
      v. Special Use Only – Listing.
      vi. Special Aircraft Only – Listing.
   b. Equipment Information
      i. Equipment Type – Listing.
      ii. Channel Indicator – Listing.
      iii. Vertical Coverage
         1. Altitude
         2. Distance
         3. Azimuth
      iv. Antenna Tilt – Listing.
      v. Tilt Angle
      vi. Standby Power – Listing.
      vii. Serial Number
      viii. ARTS – Listing.
      ix. Moving Target Indicator
      x. Video Map Indicator
      xi. Program Code – Listing.
   c. Radarscope Location - Multiple
      i. Radarscope Location
   d. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
   e. Restrictions
      i. Service Date
      ii. Comments
         a. Priority
         b. Topic – Listing.
         c. Date
         d. Remark
      iii. Restriction
         a. Azimuth From
         b. Azimuth To
         c. Distance Beyond
         d. Distance Within
         e. DME Beyond
         f. DME Within
         g. Altitude Above

        h.   Altitude Below

2. The attribute 'Channel Indicator' will have 2 options: Single and Dual.
3. The following information will not be following the concept of temporality:
    a. Equipment Information
    b. Radarscope Location
    c. Restrictions

4.15 TACAN

1. Following information, including but not limited to, will be captured for TACAN component in AIRNAV:
   a. General Information
      i. Name
      ii. MagVar/Year
      iii. Military Use Only Indicator
      iv. VFR Only Indicator
      v. Special Use Only – Listing.
      vi. Special Aircraft Only – Listing.
   b. Equipment Information
      i. Equipment Type - Listing.
      ii. Doppler Indicator - Listing.
      iii. Transmitter Indicator - Listing.
      iv. Channel
      v. Standby Power - Listing.
      vi. Program Code - Listing.
   c. Coordinates
      i. Latitude
      ii. Longitude
      iii. Elevation
      iv. Elevation Unit of Measure
      v. Horizontal Datum – Listing.
      vi. Vertical Datum – Listing
      vii. Ellipsoid Elevation
      viii. Ellipsoid Elevation Unit of Measure
      ix. Ellipsoid Horizontal Datum – Listing.
      x. Ellipsoid Vertical Datum - Listing
      xi. Ellipsoid Model
   d. Restrictions
      i. Service Date
      ii. Comments
         1. Priority
         2. Topic – Listing.
         3. Date
         4. Remark
      iii. Restriction
         1. Azimuth From
         2. Azimuth To
         3. Distance Beyond
         4. Distance Within
         5. DME Beyond
         6. DME Within
         7. Altitude Above
         8. Altitude Below
   e. Alignment
      i. Radial
      ii. Altitude
      iii. Date ARR Established
      iv. Start
      v. Stop
      vi. T1
      vii. T2
      viii. Orbit

       1. T1
- a. Direction – Listing.
- b. Distance
- c. Altitude
- d. Date
- e. Ref Mean Align

       2. T2
- a. Direction – Listing.
- b. Distance
- c. Altitude
- d. Date
- e. Ref Mean Align

f. Receiver Checkpoint
- i. Type – Mandatory information. Listing.
- ii. Airport Id
- iii. Altitude – Mandatory information only if the value for 'Type' is 'Air'. Altitude not required if the value for 'Type' is 'Ground'.
- iv. Distance – Mandatory information.
- v. Radial – Mandatory information.
- vi. Description – Mandatory information.

2. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
3. The attribute 'Altitude' within the Receiver Checkpoint section will be mandatory information, if user selects the value for the attribute 'Type' as 'Air'.
4. The attribute 'Altitude' within the Receiver Checkpoint section will not be required, if user selects the value for the attribute 'Type' as 'Ground'.
5. System will allow the user to enter values for T2, only if the attribute 'Transmitter Indicator' is selected as 'Dual'.
6. The following information will not be following the concept of temporality:
   - a. Equipment Information
   - b. Receiver Checkpoint
   - c. Alignment
   - d. Restrictions

4.16 VOR / VOT

1. Following information, including but not limited to, will be captured for VOR / VOT component in AIRNAV:
   1. General Information
      a. Name
      b. MagVar/Year
      c. Military Use Only Indicator
      d. VFR Only Indicator
      e. Special Use Only – Listing.
      f. Special Aircraft Only – Listing.
   2. Equipment Information
      a. Equipment Type – Listing.
      b. Doppler Indicator
      c. Voice – Listing.
      d. Transmitter Indicator – Listing.
      e. Rec Type – Listing.
      f. Standby Power – Listing.
      g. Program – Listing.
      h. Used As – Listing.
   3. Coordinates
      a. Latitude
      b. Longitude
      c. Elevation
      d. Elevation Unit of Measure
      e. Horizontal Datum – Listing.
      f. Vertical Datum – Listing
      g. Ellipsoid Elevation
      h. Ellipsoid Elevation Unit of Measure
      i. Ellipsoid Horizontal Datum – Listing.
      j. Ellipsoid Vertical Datum - Listing
      k. Ellipsoid Model
   4. Restrictions
      a. Service Date
      b. Comments
         i. Priority
         ii. Topic – Listing.
         iii. Date
         iv. Remark
      c. Restriction
         i. Azimuth From
         ii. Azimuth To
         iii. Distance Beyond
         iv. Distance Within
         v. DME Beyond
         vi. DME Within
         vii. Altitude Above
         viii. Altitude Below
   5. Alignment
      a. Radial
      b. Altitude
      c. Date ARR Established
      d. Start
      e. Stop
      f. T1

g. T2
h. Orbit
   1. T1
      i. Direction – Listing.
      ii. Distance
      iii. Altitude
      iv. Date
      v. Ref Mean Align
   2. T2
      i. Direction – Listing.
      ii. Distance
      iii. Altitude
      iv. Date
      v. Ref Mean Align
6. Receiver Checkpoint
   a. Type – Mandatory information. Listing.
   b. Airport Id
   c. Altitude – Mandatory information only if the value for 'Type' is 'Air'. Altitude not required if the value for 'Type' is 'Ground'.
   d. Distance – Mandatory information.
   e. Radial – Mandatory information.
   f. Description – Mandatory information.
2. The attribute 'Transmitter Indicator' will have 2 options: Single and Dual.
3. The attribute 'Used As' will have 2 options: VOR and VOT.
4. The attribute 'Altitude' within the Receiver Checkpoint section will be mandatory information, if user selects the value for the attribute 'Type' as 'Air'.
5. The attribute 'Altitude' within the Receiver Checkpoint section will not be required, if user selects the value for the attribute 'Type' as 'Ground'.
6. System will allow the user to enter values for T2, only if the attribute 'Transmitter Indicator' is selected as 'Dual'.
7. The following information will not be following the concept of temporality:
   1. Equipment Information
   2. Receiver Checkpoint
   3. Alignment
   4. Restrictions